

SEQUENCE LISTING

<110> EXELIXIS, INC.

<120> PSMCS AS MODIFIERS OF THE RB PATHWAY AND METHODS OF USE

<130> EX03-059C-PC

<150> US 60/401,737
<151> 2002-08-07

<150> US 60/428,872
<151> 2002-11-25

<160> 11

<170> PatentIn version 3.2

<210> 1
<211> 1478
<212> DNA
<213> Homo sapiens

<400> 1

ccatttgtct ctaaaggaa ggtgctgtgt aatcatthaag gagcggaggc ttttggagct	60
gctaaaaatgc cggttacactt cgggtccgat cagcgaaaga ccaaagagga tgagaaggac	120
gacaagccca tccgagctct ggatgagggg gatattgcct tggaaaac ttatggtcag	180
agcacttact ctggcagat caagcaagtt gaagatgaca ttcagcaact tctcaagaaa	240
attaatgagc tcactggtat taaagaatct gacactggcc tggccccacc agcactctgg	300
gattttggctg cagataagca gacactccag agtgaacagc ctttacaggt tgccaggtgt	360
acaaaagataa tcaatgctga ttccggaggac ccaaaataca ttatcaacgt aaagcagttt	420
gccaaatggtttggtg tggatggacact tagtgcattcgt gtggcaccta ctgacattga agaaggatg	480
agagtggcg tggatagaaa taaatatcaa attcacattc cattgcctcc taagattgac	540
ccaaacagtta ccatgatgca ggttggaaagag aaacctgatg tcacatacag tgatgttggt	600
ggctgttaagg aacagattga gaaactgcga gaagtagttt aaccccccatt acttcatcca	660
gagaggttttgg tgaaccttgg cattgacactt cccaaaggcg tgctgctttt tggtccaccc	720
ggtaaggca agacactctg tgcgcggca gttgctaattc ggactgatgc gtgcattcatt	780
cgagttatttgc gatctgagct tgtacagaaa tacgtcggtg agggggctcg aatggttcgt	840
gaactcttttgc aaatggccag aacaaaaaaaaa gcctgcctta tcttctttga tgaaattgat	900
gctattggag gggctcggtt tgatgtgggt gctggaggtg acaatgaagt gcagagaaca	960
atgttggaaac tgatcaatca gcttgcattc tttgatcctc gaggcaaatat taaagtgcgt	1020
atggccacta acagacactga tactttggat ccagcactga tgaggccagg gagattggat	1080
agaaaaaaaaatg aattttagctt gcccgcattca gagggtcgga cccacatatt taagattcac	1140

gctcgttcaa tgagtgttga aagagatatc agatttgaac tggtagcacg actgtgtcca	1200
aatagcactg gtgctgagat tagaagcgtc tgcacagagg ctggtatgtt tgccatcaga	1260
gcacggcgaa aaattgctac cgagaaggat ttcttggaaag ctgtaaataa ggtcattaag	1320
tcttatgccca aattcagtgc tactcctcgt tacatgacat acaactgaac cctgaaggct	1380
ttcaagtgaa aactttaaat tggaatccta accttatata gacttgttaa taaccaattc	1440
ataaaacaaat aaatggcttc aacttttagag cacaatgg	1478

<210> 2
<211> 1478
<212> DNA
<213> Homo sapiens

<400> 2	
ccatttgct ctaaaggaa ggtgctgtgt aatcattaag gagcggaggc ttttggagct	60
gctaaaatgc cggattacct cggtgccat cagcggaaaga ccaaagagga tgagaaggac	120
gacaagccca tccgagctct ggatgagggg gatattgcct tggtaaaaac ttatggtcag	180
agcacttact ctaggcagat caagcaagtt gaagatgaca ttcagcaact tctcaagaaa	240
attaatgagc tcactggtat taaagaatct gacactggcc tggccccacc agcactctgg	300
gatttggctg cagataagca gacactccag agtgaacagc ctttacaggt tgccaggtgt	360
acaaagataa tcaatgctga ttcggaggac caaaaataca ttatcaacgt aaagcagttt	420
gccaagtttggaccc tggatgatcag gtggcaccta ctgacattga agaaggatg	480
agagtggcg tggatagaaa taaatatcaa attcacattc cattgcctcc taagattgac	540
ccaacagtta ccatgatgca ggtggaagag aaacctgatg tcacatacag tgatgttgt	600
ggctgtaagg aacagattga gaaactgcga gaagtagttt aaaccccatt acttcatcca	660
gagaggtttggaccc tggatgatcag gtggcaccta ctgacattga agaaggatg	720
ggtacaggca agacactctg tgcgcggca gttgctaattc ggactgatgc gtgcattcatt	780
cgagttatttggaccc tggatgatcag gtggcaccta ctgacattga agaaggatg	840
gaactcttttggaccc tggatgatcag gtggcaccta ctgacattga agaaggatg	900
gctattggag gggctcggtt tgatgatgggt gctggaggtt acaatgaagt gcagagaaca	960
atgttggaaac tgatcaatca gcttggatgggt tttgatcctc gaggcaatataa taaagtgtt	1020
atggccacta acagacacttgc ttttggatgggt ccagcacttgc tgaggccagg gagattggat	1080
agaaaaatttgc aatttggatgggt ccagcacttgc tgaggccagg gagattggat	1140
gctcggttgc tggatgttgc aagagatatc agatttgcacg tggtagcacg actgtgtcca	1200
aatagcactg gtgctgagat tagaagcgtc tgcacagagg ctggtatgtt tgccatcaga	1260
gcacggcgaa aaattgctac cgagaaggat ttcttggaaag ctgtaaataa ggtcattaag	1320

tcttatgcc aattcagtgc tactcctcg tatacatgacat acaactgaac cctgaaggct	1380
ttcaagtgaa aactttaaat tggaatccta accttatata gacttgtaa taaccaattc	1440
ataaaacaat aaatggcttc aacttttagag cacaatgg	1478

<210> 3	
<211> 1516	
<212> DNA	
<213> Homo sapiens	
<400> 3	
ggcacgagga ttaaggagcg gaggctttg gagctgctaa aatgccggat tacctcggtg	60
ccgatcagcg gaagacaaaa gaggatgaga aggacgacaa gcccatccga gctctggatg	120
agggggatat tgccttgtt gaaaacttatg gtcagagcac ttactctagg cagatcaagc	180
aagttgaaga tgacattcag caacttctca agaaaattaa ttagctcact ggtattaaag	240
aatctgacac tggcctggcc ccaccagcac tctgggattt ggctgcagat aagcagacac	300
tccagagtga acagcctta caggttgcca ggtgtacaaa gataatcaat gctgattcgg	360
aggacccaaa atacattatc aacgtaaagc agtttgccaa gtttgggtt gaccttagtg	420
atcaggtggc acctactgac attgaagaag ggatgagagt gggcgtggat agaaataaaat	480
atcaaattca cattccattt gctcctaaga ttgacccaaac agttaccatg atgcaggtgg	540
aagagaaaacc tgatgtcaca tacagtgtat ttgggtggctg taaggaacag attgagaaac	600
tgcgagaagt agttgaaacc ccattacttc atccagagag gtttggtaac cttggcattt	660
agcctcccaa gggcgtgctg ctctttggtc cacccggtac aggcaagaca ctctgtgcgc	720
gggcagttgc taatcgact gatcggtgct tcattcgagt tattggatct gagcttgcac	780
agaaataacgt cggtgagggg gctcgaatgg ttctgtact ctgttggatg gccagaacaa	840
aaaaagcctg ctttatcttc tttgatgaaa ttgatgctat tggagggct cgttttgatg	900
atgggtgtgg aggtgacaat gaagtgcaga gaacaatgtt ggaactgatc aatcagctt	960
atgggtttga tcctcgaggc aatattaaag tgctgatggc cactaacaga cctgatactt	1020
tggatccagc actgatgagg ccagggagat tggatagaaa aattgaattt agcttgcgg	1080
atctagaggg tcggacccac atatttaaga ttcacgctcg ttcaatgagt gttgaaagag	1140
atatcagatt tgaactgtt gcacgactgt gtccaaatag cactgggtgct gagattagaa	1200
gcgtctgcac agaggctggt atggttgcca tcagagcacg gcgaaaaatt gctaccgaga	1260
aggatttctt ggaagctgta aataaggtca ttaagtctta tgccaaattc agtgcgtactc	1320
ctcgttacat gacatacaac tgaaccctga aggcttcaa gtgaaaactt taaattggaa	1380
tccttaacctt atatagactt gttaataacc aattcataaa caaataaaatg gcttcaaaaat	1440

tgtatgctt	tttccatatac	tcttcggta	atataataaa	aggtgatttc	taatgttaaa	1500
aaaaaaaaaaa	aaaaaaa					1516
<210>	4					
<211>	1545					
<212>	DNA					
<213>	Homo sapiens					
<400>	4					
gaagacacca	ccggaagcaa	ggaagggtgc	gtgtaatcat	taaggagcgg	aggctttgg	60
agctgctaaa	atgccggatt	acctcggtgc	cgtcagcgg	aagaccaaag	aggatgagaa	120
ggacgacaag	cccatccgag	ctctggatga	gggggatatt	gccttggta	aaacttatgg	180
tcagagcact	tactcttaggc	agatcaagca	agttgaagat	gacattcagc	aacttctcaa	240
gaaaattaat	gagctcactg	gtattaaaga	atctgacact	ggcctggccc	caccagcact	300
ctgggatttg	gctgcagata	agcagacact	ccagagtgaa	cagcctttac	aggttgccag	360
gtgtacaaag	ataatcaatg	ctgattcgg	ggacccaaaa	tacattatca	acgtaaagca	420
gtttgccaag	tttgtggtgg	accttagtga	tcaggtggca	cctactgaca	ttgaagaagg	480
gatgagagtg	ggcgtggata	gaaataaata	tcaaattcac	attccattgc	ctcctaagat	540
tgacccaaca	gttaccatga	tgcaggtgga	agagaaacct	gatgtcacat	acagtgtatgt	600
tggtggtgt	aaggaacaga	ttgagaaact	gcgagaagta	gttgaaaaccc	cattacttca	660
tccagagagg	tttgtgaacc	ttggcattga	gcctcccaag	ggcgtgctgc	tctttggtcc	720
acccggtaca	ggcaagacac	tctgtgcgcg	ggcagttgct	aatcggactg	atgcgtgctt	780
cattcgagtt	attggatctg	agcttgtaca	gaaatacgta	ggtgaggggg	ctcgaatgg	840
tcgtgaactc	tttgaatgg	ccagaacaaa	aaaagcctgc	cttatcttct	ttgatgaaat	900
tgtatgttatt	ggaggggctc	gtttgtatga	tggtgctgga	ggtgacaatg	aagtgcagag	960
aacaatgttg	gaactgatca	atcagcttga	tggttttgat	cctcgaggca	atattaaagt	1020
gctgtggcc	actaacagac	ctgatacttt	ggatccagca	ctgtatgaggc	cagggagatt	1080
ggatagaaaa	attgaattta	gcttgccg	tctagagggt	cggacccaca	tatttaagat	1140
tcacgctcgt	tcaatgagtg	ttgaaagaga	tatcagattt	gaactgttag	cacgactgt	1200
tccaaatagc	actggtgctg	agattagaag	cgtctgcaca	gaggctggta	tgtttggccat	1260
cagagcacgg	cgaaaaattt	ctaccgagaa	ggatttcttg	gaagctgtaa	ataaggtcat	1320
taagtcttat	gccaaattca	gtgctactcc	tcgttacatg	acataacaact	gaaccctgaa	1380
ggcttcaag	tgaaaacttt	aaattggaat	cctaacccta	tatagacttg	ttaataacca	1440
attcataaaac	aaataaaatgg	cttcaaaattt	gtatgctttt	ttccatatct	cttcttgtaa	1500
tataataaaaa	ggtgatttct	aatgttaaaa	aaaaaaaaaa	aaaaaa		1545

<210> 5
 <211> 1591
 <212> DNA
 <213> Homo sapiens

<400> 5			
ggcacgagga ttcgctgctc cgca	gcacgg ccggagctgg tccggtaa	gatcgggatt	60
tgtggggaga ggtttccac tggtaa	aggcttaa gaaagacggt attaatctcc		120
cgttgccgt cccgcctggt cccatcttct	gcccgcctt ccaggaaatg aatctgctgc		180
cgaatattga gagtccagtg actcgccagg	agaagatggc gaccgtgtgg gatgaggccg		240
agcaagatgg aattggggag gaggtgctca	agatgtccac ggaggagatc atccagcgca		300
cacggctgct ggacagttagt atcaagatca	tgaagagtga agtgttgaga gtcacccatg		360
agctccaagc catgaaggac aagataaaag	agaacagtga gaaaatcaa gtgaacaaga		420
ccctgccgta cttgtctcc aacgtcatcg	agtcctggta tggtgatcct aatgaccaag		480
aggaggatgg tgccaatatt gacctggact	cccagagggaa gggcaagtgt gctgtgatca		540
aaacctctac acgacagacg tactcccttc	ctgtgattgg gttgggtggat gctgaaaagc		600
taaagccagg agacctggtg ggtgtgaaca	aagactccta tctgatcctg gagacgctgc		660
ccacagagta tgactcgcgg gtgaaggcca	tggaggtaga cgagaggccc acggagcaat		720
acagtgcacat tggggggttg gacaaggcaga	tccaggagct ggtggaggcc attgtcttgc		780
caatgaacca caaggagaag tttgagaact	tggggatcca acctccaaaa ggggtgctga		840
tgtatgggcc cccagggacg gggaaagaccc	tcctggcccg ggcctgtgcc gcacagacta		900
aggccacctt cctaaagctg gctggccccc	agctggtgca gatgttcatt ggagatggtg		960
ccaagctagt cgggatgcc tttgccctgg	ccaaggagaa agcgccctat atcatttca		1020
ttgatgagtt ggatgccatc ggcaccaagc	gctttgacag tgagaaggct ggggaccggg		1080
aggtgcagag gacaatgctg gagcttctga	accagctggta tggcttccag cccaaacaccc		1140
aagttaaggt aattgcagcc acaaacaggg	tggacatcct ggacccggcc tcctccgct		1200
cgggccgcct tgaccgcaag atagagttcc	cgatgccaa tgaggaggcc cgggcccagaa		1260
tcatgcagat ccactcccgaa aagatgaatg	tcagtccgtca cgtgaactac gaggagctgg		1320
cccgctgcac agatgacttc aatggggccc	agtgcaggc tgggtgtgt gaggcgggca		1380
tgatgcact ggcgcagggt gccacggagc	tcacccacga ggactacatg gaaggcatcc		1440
tggaggtgca ggccaagaag aaagccaacc	tacaatacta cgcctagggc acacaggcca		1500
gccccagtct cacggctgaa gtgcgcataa	aaagatggtt tagggccct gccaaaaaaaa		1560
aaaaaaaaaaaa aaaaaaaaaaa aaaaaaaaaa	a		1591

<210> 6
<211> 1545
<212> DNA
<213> Homo sapiens

<400> 6	
gattcgctgc tccgcagcac ggccggagct ggtcgggtca agagtcggga tttgtggga	60
gagggtttcc actggtaaag agaaggctt aagaaagacg gtattaatct cccgttgcgg	120
ctccccctg gtcccatctt ctgcccgtc ctccaggaaa tgaatctgct gccgaatatt	180
gagagtccag tgactcggca ggagaagatg ggcaccgtgt gggatgaggc cgagcaagat	240
ggaattgggg aggaggtgct caagatgtcc acggaggaga tcatccagcg cacacggctg	300
ctggacagtg agatcaagat catgaagagt gaagtgttga gagtcaccca tgagctccaa	360
gccatgaagg acaagataaa agagaacagt gagaaaatca aagtgaacaa gaccctgccc	420
taccttgtct ccaacgtcat cgagctcctg gatgttgate ctaatgacca agaggaggat	480
ggtgccaata ttgacctgga ctcccagagg aaggcaagt gtgctgtgat caaacacct	540
acacgacaga cgtacttcct tcctgtgatt gggttgggtgg atgctaaaaa gctaaagcca	600
ggagacctgg tgggtgtgaa caaagactcc tatctgatcc tggagacgct gcccacagag	660
tatgactcgc gggtaaaggc catggaggtt gacggagaggc ccacggagca atacagtgc	720
attgggggtt tggacaagca gatccaggag ctgggtggagg ccattgtctt gccaatgaac	780
cacaaggaga agtttgagaa cttggggatc caacctccaa aagggtgtct gatgtatggg	840
cccccaggaa cggggaaagac cctcctggcc cgggcctgtg cogcacagac taaggccacc	900
ttcctaaagc tggctggccc ccagctgggtc cagatgttca ttggagatgg tgccaagcta	960
gtccgggatg ctttgccct ggccaaggag aaagcgcctt ctatcatctt cattgatgag	1020
ttggatgcca tcggcaccaa gcgccttgac agtgagaagg ctggggaccg ggaggtgcag	1080
aggacaatgc tggagcttct gaaccagctg gatggcttcc agcccaacac ccaagttaag	1140
gtaattgcag ccacaaacag ggtggacatc ctggaccccg ccctcctccg ctcggccgc	1200
cttgaccgca agatagagtt cccgatgccc aatgaggagg cccggccag aatcatgc	1260
atccactccc gaaagatgaa tgtcagtcct gacgtgaact acgaggagct ggcccgctgc	1320
acagatgact tcaatggggc ccagtgcag gctgtgtgtg tggaggcggg catgatgc	1380
ctgcgcagggt gttccacgga gctcacccac gaggactaca tggaggcat cctggaggtg	1440
caggccaaaga agaaagccaa cctacaatac tacgcctagg gcacacaggc cagccccagt	1500
ctcacggctg aagtgcgcaa taaaagatgg tttagggtcc ctgcc	1545

<210> 7
<211> 1341

<212> DNA

<213> Homo sapiens

<400> 7

gaattccggc	gaccgtgtgg	gatgaggccg	agcaagatgg	aattggggag	gaggtgctca	60
agatgtccac	ggaggagatc	atccagcgca	cacggctgct	ggacagttag	atcaagatca	120
tgaagagtga	agtgttgaga	gtcacccatg	agctccaagc	catgaaggac	aagataaaag	180
agaacagtga	gaaaatcaa	gtgaacaaga	ccctgcccgt	ccttgtctcc	aacgtcatcg	240
agtccttgg	tgttgatcct	aatgaccaag	aggaggatgg	tgccaatatt	gacctggact	300
cccagaggaa	gggcaagtgt	gctgtgatca	aaacctctac	acgacagacg	tacttccttc	360
ctgtgattgg	gttggtgat	gctaaaaagc	taaagccagg	agacctggtg	ggtgtgaaca	420
aagactccta	tctgatcctg	gagacgctgc	ccacagagta	tgactcgccg	gtgaaggcca	480
tggaggtaga	cgagaggccc	acggagcaat	acagtgacat	tgggggtttg	gacaagcaga	540
tccaggagct	ggtggaggcc	attgtcttgc	caatgaacca	caaggagaag	tttgagaact	600
tggggatcca	acctccaaaa	ggggtgctga	tgtatgggcc	cccagggacg	gggaagaccc	660
tcctggcccc	ggcctgtgcc	gcacagacta	aggccacctt	cctaaagctg	gctggccccc	720
agctggtgca	gatgttcatt	ggagatggtg	ccaagctagt	ccgggatgcc	tttgccttgg	780
ccaaggagaa	agcgcctct	atcatcttca	ttgatgagtt	ggatgccatc	ggcaccaagc	840
gcttgacag	tgagaaggct	ggggaccggg	aggtgcagag	gacaatgctg	gagttctga	900
accagcttgg	tggcttccag	cccaacaccc	aagttaaggt	aattgcagcc	acaaacaggg	960
tggacatcct	ggaccccgcc	ctcctccgct	cggccgcct	tgaccgcaag	atagagttcc	1020
cgtgcccaa	tgaggaggcc	cgggccagaa	tcatgcagat	coactcccga	aagatgaatg	1080
tcatgcctga	cgtgaactac	gaggagctgg	cccgctgcac	agatgacttc	aatggggccc	1140
agtgcaggc	tgtgtgtgt	gaggcggca	tgatcgact	ggccagggggt	gccacggagc	1200
tcaccacga	ggactacatg	gaaggcatcc	tggaggtgca	ggccaagaag	aaagccaacc	1260
tacaatacta	cgcctaggca	cacaggccag	ccccagtctc	acggctgaag	tgcgcaataa	1320
aagatggttt	agggggaaatt	c				1341

<210> 8

<211> 1591

<212> DNA

<213> Homo sapiens

<400> 8

ggcacgagga	ttcgctgctc	cgcagcacgg	ccggagctgg	tccggtcaag	agtcgggatt	60
tgtggggaga	gttttccac	tggtcaagag	aaggcttaa	gaaagacggt	attaatctcc	120
cgttgcggct	cccgccctgg	cccatcttct	gcccgcctc	ccaggaaatg	aatctgctgc	180

cgaatattga gagtccagtg actcggcagg agaagatggc gaccgtgtgg gatgaggccg	240
agcaagatgg aattggggag gaggtgctca agatgtccac ggaggagatc atccagcgca	300
cacggctgct ggacagttagt atcaagatca tgaagagtga agtgttgaga gtcacccatg	360
agctccaagc catgaaggac aagataaaag agaacagtga gaaaatcaa gtgaacaaga	420
ccctgccgt a cttgtctcc aacgtcatcg agctcctgga tggtgatcct aatgaccaag	480
aggaggatgg tgccaatatt gacctggact cccagaggaa gggcaagtgt gctgtgatca	540
aaacctctac acgacagacg tacttccttc ctgtgattgg gttggtgat gctgaaaagc	600
taaagccagg agacctggtg ggtgtgaaca aagactccta tctgatcctg gagacgctgc	660
ccacagagta tgactcgcgg gtgaaggcca tggaggtaga cgagaggccc acggagcaat	720
acagtgacat tgggggtttg gacaaggcaga tccaggagct ggtggaggcc attgtcttgc	780
aatgaacca caaggagaag tttgagaact tggggatcca acctccaaaa ggggtgctga	840
tgtatggcc cccagggacg gggaaagaccc tcctggcccg ggcctgtgcc gcacagacta	900
aggccacctt cctaaagctg gctggccccc agctggtgca gatgttcatt ggagatggtg	960
ccaagctagt ccgggatgcc tttgcccctgg ccaaggagaa agcgccctct atcatcttca	1020
ttgatgagtt ggatgccatc ggcaccaagc gctttgacag tgagaaggct ggggaccggg	1080
aggtgcagag gacaatgctg gagttctga accagctgga tggcttccag cccAACACCC	1140
aagttaaggt aattgcagcc acaaacaggg tggacatcct ggaccccgcc ctccctccgt	1200
cgggcccgcct tgaccgcaag atagagttcc cgatgccccaa tgaggaggcc cggggccagaa	1260
tcatgcagat ccactcccga aagatgaatg tcagtccctga cgtgaactac gaggagctgg	1320
cccgctgcac agatgacttc aatggggccc agtgcaaggc tgtgtgtgt gaggcgggca	1380
tgatcgcact ggcgcagggt gccacggagc tcacccacga ggactacatg gaaggcatcc	1440
tggaggtgca ggccaagaag aaagccaacc tacaatacta cgccttagggc acacaggcca	1500
gccccagtct cacggctgaa gtgcgcaata aaagatggtt tagggccct gccaaaaaaaaa	1560
aaaaaaaaaaa aaaaaaaaaa aaaaaaaaaa a	1591

<210> 9
 <211> 1583
 <212> DNA
 <213> Homo sapiens

<400> 9	
gattcgctgc tccgcagcac ggccggagct ggtcgggtca agagtcggga tttgtggga	60
gaggtttcc actggtcaag agaaggctt aagaaagacg gtattatct cccgttgcgg	120
ctccgcctg gtcccatctt ctgcccgcctc ctccagggaa tgaatctgct gccgaatatt	180

gagagtccag tgactcgca ggagaagatg gcgaccgtgt gggatgaggc cgagcaagat	240
ggaattgggg aggaggtgct caagatgtcc acggaggaga tcatccagcg cacacggctg	300
ctggacagtg agatcaagat catgaagagt gaagtgttga gagtcaccca tgagctccaa	360
gccatgaagg acaagataaa agagaacagt gagaaaatca aagtgaacaa gaccctgccc	420
taccttgtct ccaacgtcat cgagctcctg gatgttgatc ctaatgacca agaggaggat	480
ggtgccaata ttgacctgga ctcccagagg aagggcaagt gtgctgtgat caaaacctct	540
acacgacaga cgtacttcct tcctgtgatt gggttggtgg atgctaaaaa gctaaagcca	600
ggagacctgg tgggtgtgaa caaaagactcc tatctgatcc tggagacgct gcccacagag	660
tatgactcgc gggtaaggc catggaggt aacgagaggc ccacggagca atacagtgac	720
attgggggtt tggacaagca gatccaggag ctggtgagg ccattgtctt gccaatgaac	780
cacaaggaga agtttgagaa cttggggatc caacctccaa aaggggtgct gatgtatgg	840
cccccaggga cgggaaagac ctcctggcc cgggcctgtg ccgcacagac taaggccacc	900
ttcctaaagc tggctggccc ccagctggtg cagatgttca ttggagatgg tgccaagcta	960
gtccgggatg ctttgccct ggccaaggag aaagcgcctt ctatcatctt cattgatgag	1020
ttggatgcca tcggcaccaa gcgccttgc acgtgagaagg ctggggaccg ggaggtgcag	1080
aggacaatgc tggagcttct gaaccagctg gatggcttcc agcccaacac ccaagttaag	1140
gtaattgcag ccacaaacag ggtggacatc ctggaccccg ccctcctccg ctcggccgc	1200
cttgaccgca agatagagtt cccgatgccc aatgaggagg cccgggccag aatcatgcag	1260
atccactccc gaaagatgaa tgcgtgcct gacgtgaact acgaggagct ggccgcgtc	1320
acagatgact tcaatgggc ccagtgcag gctgtgtgt tggaggcggg catgatgc	1380
ctgcgcagggt gtgccacgga gtcacccac gaggactaca tggaggcat cttggagggt	1440
caggccaaga agaaagccaa cctacaatac tacgcctagg gcacacaggc cagccccagt	1500
ctcacggctg aagtgcgcaa taaaagatgg tttagggtcc ctgccaaaaaa aaaaaaaaaa	1560
aaaaaaaaaa aaaaaaaaaa aaa	1583

<210> 10
<211> 433
<212> PRT
<213> Homo sapiens

<400> 10

Met Pro Asp Tyr Leu Gly Ala Asp Gln Arg Lys Thr Lys Glu Asp Glu			
1	5	10	15

Lys Asp Asp Lys Pro Ile Arg Ala Leu Asp Glu Gly Asp Ile Ala Leu		
20	25	30

Leu Lys Thr Tyr Gly Gln Ser Thr Tyr Ser Arg Gln Ile Lys Gln Val
35 40 45

Glu Asp Asp Ile Gln Gln Leu Leu Lys Lys Ile Asn Glu Leu Thr Gly
50 55 60

Ile Lys Glu Ser Asp Thr Gly Leu Ala Pro Pro Ala Leu Trp Asp Leu
65 70 75 80

Ala Ala Asp Lys Gln Thr Leu Gln Ser Glu Gln Pro Leu Gln Val Ala
85 90 95

Arg Cys Thr Lys Ile Ile Asn Ala Asp Ser Glu Asp Pro Lys Tyr Ile
100 105 110

Ile Asn Val Lys Gln Phe Ala Lys Phe Val Val Asp Leu Ser Asp Gln
115 120 125

Val Ala Pro Thr Asp Ile Glu Glu Gly Met Arg Val Gly Val Asp Arg
130 135 140

Asn Lys Tyr Gln Ile His Ile Pro Leu Pro Pro Lys Ile Asp Pro Thr
145 150 155 160

Val Thr Met Met Gln Val Glu Glu Lys Pro Asp Val Thr Tyr Ser Asp
165 170 175

Val Gly Gly Cys Lys Glu Gln Ile Glu Lys Leu Arg Glu Val Val Glu
180 185 190

Thr Pro Leu Leu His Pro Glu Arg Phe Val Asn Leu Gly Ile Glu Pro
195 200 205

Pro Lys Gly Val Leu Leu Phe Gly Pro Pro Gly Thr Gly Lys Thr Leu
210 215 220

Cys Ala Arg Ala Val Ala Asn Arg Thr Asp Ala Cys Phe Ile Arg Val
225 230 235 240

Ile Gly Ser Glu Leu Val Gln Lys Tyr Val Gly Glu Gly Ala Arg Met
245 250 255

Val Arg Glu Leu Phe Glu Met Ala Arg Thr Lys Lys Ala Cys Leu Ile
260 265 270

Phe Phe Asp Glu Ile Asp Ala Ile Gly Gly Ala Arg Phe Asp Asp Gly
275 280 285

Ala Gly Gly Asp Asn Glu Val Gln Arg Thr Met Leu Glu Leu Ile Asn
290 295 300

Gln Leu Asp Gly Phe Asp Pro Arg Gly Asn Ile Lys Val Leu Met Ala
305 310 315 320

Thr Asn Arg Pro Asp Thr Leu Asp Pro Ala Leu Met Arg Pro Gly Arg
 325 330 335

Leu Asp Arg Lys Ile Glu Phe Ser Leu Pro Asp Leu Glu Gly Arg Thr
340 345 350

His Ile Phe Lys Ile His Ala Arg Ser Met Ser Val Glu Arg Asp Ile
355 360 365

Arg Phe Glu Leu Leu Ala Arg Leu Cys Pro Asn Ser Thr Gly Ala Glu
 370 375 380

Ile Arg Ser Val Cys Thr Glu Ala Gly Met Phe Ala Ile Arg Ala Arg
385 390 395 400

Arg Lys Ile Ala Thr Glu Lys Asp Phe Leu Glu Ala Val Asn Lys Val
405 410 415

Ile Lys Ser Tyr Ala Lys Phe Ser Ala Thr Pro Arg Tyr Met Thr Tyr
420 425 430

Asn

<210> 11
<211> 433
<212> PRT
<213> *Homo sapiens*

<400> 11

Met	Pro	Asp	Tyr	Leu	Gly	Ala	Asp	Gln	Arg	Lys	Thr	Lys	Glu	Asp	Glu
1				5					10					15	

Lys Asp Asp Lys Pro Ile Arg Ala Leu Asp Glu Gly Asp Ile Ala Leu
 20 25 30

Leu Lys Thr Tyr Gly Gln Ser Thr Tyr Ser Arg Gln Ile Lys Gln Val
 35 40 45

Glu Asp Asp Ile Gln Gln Leu Leu Lys Lys Ile Asn Glu Leu Thr Gly
50 55 60

Ile Lys Glu Ser Asp Thr Gly Leu Ala Pro Pro Ala Leu Trp Asp Leu
65 70 75 80

Ala Ala Asp Lys Gln Thr Leu Gln Ser Glu Gln Pro Leu Gln Val Ala
85 90 95

Arg Cys Thr Lys Ile Ile Asn Ala Asp Ser Glu Asp Pro Lys Tyr Ile
100 105 110

Ile Asn Val Lys Gln Phe Ala Lys Phe Val Val Asp Leu Ser Asp Gln
115 120 125

Val Ala Pro Thr Asp Ile Glu Glu Gly Met Arg Val Gly Val Asp Arg
130 135 140

Asn Lys Tyr Gln Ile His Ile Pro Leu Pro Pro Lys Ile Asp Pro Thr
145 150 155 160

Val Thr Met Met Gln Val Glu Glu Lys Pro Asp Val Thr Tyr Ser Asp
165 170 175

Val Gly Gly Cys Lys Glu Gln Ile Glu Lys Leu Arg Glu Val Val Glu
180 185 190

Thr Pro Leu Leu His Pro Glu Arg Phe Val Asn Leu Gly Ile Glu Pro
195 200 205

Pro Lys Gly Val Leu Leu Phe Gly Pro Pro Gly Thr Gly Lys Thr Leu
210 215 220

Cys Ala Arg Ala Val Ala Asn Arg Thr Asp Ala Cys Phe Ile Arg Val
225 230 235 240

Ile Gly Ser Glu Leu Val Gln Lys Tyr Val Gly Glu Gly Ala Arg Met
245 250 255

Val Arg Glu Leu Phe Glu Met Ala Arg Thr Lys Lys Ala Cys Leu Ile
260 265 270

Phe Phe Asp Glu Ile Asp Ala Ile Gly Gly Ala Arg Phe Asp Asp Gly
275 280 285

Ala Gly Gly Asp Asn Glu Val Gln Arg Thr Met Leu Glu Leu Ile Asn

290

295

300

Gln Leu Asp Gly Phe Asp Pro Arg Gly Asn Ile Lys Val Leu Met Ala
305 310 315 320

Thr Asn Arg Pro Asp Thr Leu Asp Pro Ala Leu Met Arg Pro Gly Arg
325 330 335

Leu Asp Arg Lys Ile Glu Phe Ser Leu Pro Asp Leu Glu Gly Arg Thr
340 345 350

His Ile Phe Lys Ile His Ala Arg Ser Met Ser Val Glu Arg Asp Ile
355 360 365

Arg Phe Glu Leu Leu Ala Arg Leu Cys Pro Asn Ser Thr Gly Ala Glu
370 375 380

Ile Arg Ser Val Cys Thr Glu Ala Gly Met Phe Ala Ile Arg Ala Arg
385 390 395 400

Arg Lys Ile Ala Thr Glu Lys Asp Phe Leu Glu Ala Val Asn Lys Val
405 410 415

Ile Lys Ser Tyr Ala Lys Phe Ser Ala Thr Pro Arg Tyr Met Thr Tyr
420 425 430

Asn